Pat. App. 09/529,043

Atty's 21437

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IN THE CLAIMS

Please cancel claims 1 - 17 and 32 - 51.

Add the following claims: --

An isolated pyruvate carboxylase gene coding for the 1 E3 amino acid sequence given under SEQ ID NO:2 or coding for an amino 2 acid sequence expressed by an allele variation of the pyruvate 3 carboxylase gene coding for the amino acid sequence given under SEQ 4 ID NO:2 wherein the allele variation is a deletion, insertion, or 5 substitution of a nucleotide in said isolated pyruvate carboxylase 6 gene, said pyruvate carboxylase gene with the allele variation 7 capable of expressing an amino acid sequence having a substantially 8 identical or increased enzymatic activity as the enzymatic activity 9 of the amino acid sequence of SEQ ID NO:2. 10

53. An isolated pyruvate carboxylase gene with the nucleotide sequence of nucleotides 165 to 3587 according to SEQ ID NO:1 or with a corresponding nucleotide sequence formed by a deletion, insertion, or substitution of a nucleotide from the nucleotide sequence of SEQ ID NO:1.

54. The isolated pyruvate carboxylase gene defined in claim 53 with a preceding promoter of the nucleotide sequence from nucleotide 20 to 109 according to SEQ ID NO:1.

55. The isolated pyruvate carboxylase gene according to claim 54 with a preceding tac promoter.

Pat. App. 09/529,043

Atty's 21437

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1	56. The isolated pyruvate carboxylase gene according to
2	claim 55 with a regulatory gene sequence associated with the tac
3	promoter.
1	57. The isolated pyruvate carboxylase gene according to
2	claim 53 associated with a regulatory gene sequence.
1	58. A nucleic acid comprising an isolated pyruvate
2	carboxylase gene according to claim 53, preceded by a promoter and
3	associated with a regulatory gene sequence.
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10	59. A vector containing an isolated pyruvate carboxylase
2//	gene according to claim 53.
1	60. A transformed cell containing in replicatable form
2	an isolated pyruvate carboxylase gene according to claim 53.
1	61. A transformed cell containing a vector according to
2	claim 59.

an enzyme which participates in synthesis of a corresponding amino

to the genus Corynebacterium.

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A transformed cell according to claim 60 belonging

63. A transformed cell according to claim 60, in which

- acid or an enzyme which participates in export of a corresponding amino acid is deregulated.
- 1 64. An isolated pyruvate carboxy/ase gene coding for the 2 amino acid sequence given under SEQ ID No:2.
- 65. An isolated pyruvate carboxylase gene with the nucleotide sequence of nucleotides 165 to 3587 according to SEQ ID NO:1.
- 66. A method of microbially producing an amino acid of the aspartate or glutamate family which comprises the steps of:
 - (a) genetically modifying an isolated pyruvate carboxylase gene coding for the amino acid sequence given under SEQ ID NO:2 or coding for an amino acid sequence expressed by an allele variation of the pyruvate carboxylase gene coding for the amino acid sequence given under SEQ ID NO:2 wherein the allele variation is a deletion, insertion, or substitution of a nucleotide in said isolated pyruvate carboxylase gene, said pyruvate carboxylase gene with the allele variation capable of expressing an amino acid sequence having a substantially identical or increased enzymatic activity as the enzymatic activity of the amino acid sequence of SEQ ID NO:2 to obtain a modified pyruvate carboxylase gene with increased pyruvate carboxylase activity over the starting pyruvate carboxylase gene; and

Atty's 21437

16	(b) producing the amino acid of the aspartate or gluta-
17	mate family by expressing the modified pyruvate carboxylase gene in
18	an amino acid-producing microorganism.

- 67. The method of producing an amino acid of the aspartate or glutamate family defined in claim 66 wherein the isolated pyruvate carboxylase gene codes for the amino acid sequence given under SEQ ID NO:2.
- 68. A method of microbially producing an amino acid of the aspartate or glutamate family which comprises the steps of:
 - (a) genetically modifying an isolated pyruvate carboxylase gene with the nucleotide sequence of nucleotides 165 to 3587 according to SEQ ID NO:1 or with a corresponding nucleotide sequence formed by a deletion, insertion, or substitution of a nucleotide from the nucleotide sequence of SEQ ID NO:1 to obtain a modified pyruvate carboxylase gene with increased pyruvate carboxylase gene; and
 - (b) producing the amino acid of the aspartate or glutamate family by expressing the modified pyruvate carboxylase gene in an amino acid-producing microorganism.
 - 69. The method of producing an amino acid of the aspartate or glutamate family defined in claim 68 wherein the isolated pyruvate carboxylase gene has the nucleotide sequence of nucleotides 165 to 3587 according to SEQ ID NO:1.--

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